

Exhibit A

Form PTO-1595
(Rev. 03/01)

OMB No. 0851-0027 (exp. 5/31/2008)

Tab settings ⇌ ⇌ ⇌

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Zhenyu Jiang

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

07/08/2003

Execution Date: _____

2. Name and address of receiving party(ies)

Name: BorgWarner Inc.

Internal Address: _____

Street Address: Powertrain Technical Center
3800 Automation Avenue, Suite 100

City: Auburn Hills State: MI Zip: 48326-1782

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 07/10/2003

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: BORGWARNER INC

Internal Address: _____

Powertrain Technical Center

Street Address: 3800 Automation Avenue, Suite 100

City: Auburn Hills State: MI Zip: 48326-1782

6. Total number of applications and patents involved: ☒

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

02-0910

DO NOT USE THIS SPACE

9. Signature.

Frank Tian

Name of Person Signing

[Signature]
Signature

7/10/2003
Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

Attorney docket no.: BW-DKT03060

ASSIGNMENT AND AGREEMENT

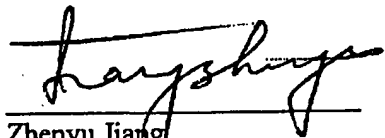
For value received, I, Zhenyu Jiang, of Ithaca in the State of New York, hereby sell, assign and transfer to Borg Warner, Inc., a Corporation of Delaware, having a place of business at Powertrain Technical Center, 3800 Automation Avenue, Suite 100, Auburn Hills, MI 48326-1782, and its successors, assigns and legal representatives (hereinafter referred to as the "Assignee"), the entire right, title and interest, for the United States of America, in and to certain inventions related to the "A METHOD FOR REDUCING VCT LOW SPEED CLOSED LOOP EXCESSIVE RESPONSE TIME" described in an application for Letters Patent of the United States, executed by me of even date here with, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Assignee the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.


I authorize Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Assignee in the United States and in all countries foreign to the United States, or to such nominees as Assignee may designate.

I agree that, when requested, I shall, without charge to Assignee, but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Zhenyu Jiang


Date:

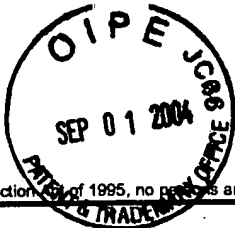


Exhibit - B

PTO/SB/21 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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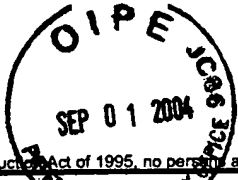
| | | | |
|--|----------------------|------------------------|--------------|
| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | Application Number | 10/303,526 | |
| | Filing Date | 11/25/2002 | |
| | First Named Inventor | Stanley B. Quinn, Jr. | |
| | Group Art Unit | 3748 | |
| | Examiner Name | N/A | |
| Total Number of Pages in This Submission | 5 | Attorney Docket Number | BW-DKT02065A |

| ENCLOSURES (check all that apply) | | |
|---|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input checked="" type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): Postcard |
| Remarks | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|----------------------|
| Firm or Individual name | Brown & Michaels, PC |
| Signature | <i>[Signature]</i> |
| Date | 01/02/2003 |

| CERTIFICATE OF MAILING | | | |
|---|--------------------|------|--------|
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 1-6-03 | | | |
| Typed or printed name | Judy H. Barron | | |
| Signature | <i>[Signature]</i> | Date | 1-6-03 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number.

| | | | |
|--|--|--------------------------|-----------------------|
| FEE TRANSMITTAL for FY 2003 <i>Patent fees are subject to annual revision.</i> | | Complete if Known | |
| | | Application Number | 10/303,528 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 | | Filing Date | 11/25/2002 |
| | | First Named Inventor | Stanley B. Quinn, Jr. |
| | | Examiner Name | |
| TOTAL AMOUNT OF PAYMENT | | Art Unit | 3748 |
| (\$) | | Attorney Docket No. | BW-DKT02065A |
| | | | |

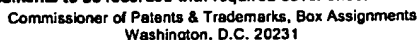
| | | | |
|--|--|---|--|
| METHOD OF PAYMENT (check all that apply) | | FEE CALCULATION (continued) | |
| <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None | | 3. ADDITIONAL FEES | |
| <input checked="" type="checkbox"/> Deposit Account: Deposit Account Number: 02-0910 Deposit Account Name: Brown & Michaels PC | | Large Entity Small Entity | |
| The Commissioner is authorized to: (check all that apply) <input type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. | | Fee Code Fee (\$) Fee Code Fee (\$) Fee Description Fee Paid | |
| 1. BASIC FILING FEE | | 1051 130 2051 65 Surcharge - late filing fee or oath | |
| Large Entity Small Entity | | 1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet | |
| Fee Code Fee (\$) Fee Code Fee (\$) Fee Description Fee Paid | | 1053 130 1053 130 Non-English specification | |
| 1001 740 2001 370 Utility filing fee | | 1812 2,520 1812 2,520 For filing a request for ex parte reexamination | |
| 1002 330 2002 165 Design filing fee | | 1804 920* 1804 920* Requesting publication of SIR prior to Examiner action | |
| 1003 510 2003 255 Plant filing fee | | 1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action | |
| 1004 740 2004 370 Reissue filing fee | | 1251 110 2251 55 Extension for reply within first month | |
| 1005 160 2005 80 Provisional filing fee | | 1252 400 2252 200 Extension for reply within second month | |
| SUBTOTAL (1) (\$) | | 1253 920 2253 460 Extension for reply within third month | |
| 0.00 | | 1254 1,440 2254 720 Extension for reply within fourth month | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | | 1255 1,960 2255 980 Extension for reply within fifth month | |
| Total Claims: 20** = 18.00 X 18.00 = 0.00 | | 1401 320 2401 160 Notice of Appeal | |
| Independent Claims: 3** = 84.00 X 84.00 = 0.00 | | 1402 320 2402 160 Filing a brief in support of an appeal | |
| Multiple Dependent: = | | 1403 280 2403 140 Request for oral hearing | |
| Large Entity Small Entity | | 1451 1,510 2451 1,510 Petition to institute a public use proceeding | |
| Fee Code Fee (\$) Fee Code Fee (\$) Fee Description Fee Paid | | 1452 110 2452 55 Petition to revive - unavoidable | |
| 1202 18 2202 9 Claims in excess of 20 | | 1453 1,280 2453 640 Petition to revive - unintentional | |
| 1201 84 2201 42 Independent claims in excess of 3 | | 1501 1,280 2501 640 Utility issue fee (or reissue) | |
| 1203 280 2203 140 Multiple dependent claim, if not paid | | 1502 460 2502 230 Design issue fee | |
| 1204 84 2204 42 ** Reissue independent claims over original patent | | 1503 620 2503 310 Plant issue fee | |
| 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent | | 1460 130 2460 130 Petitions to the Commissioner | |
| SUBTOTAL (2) (\$) | | 1807 50 2407 50 Processing fee under 37 CFR 1.17(q) | |
| 0.00 | | 1806 180 2406 180 Submission of Information Disclosure Stmt | |
| **or number previously paid, if greater; For Reissues, see above | | 8021 40 24021 40 Recording each patent assignment per property (times number of properties) | |
| | | 1809 740 2809 370 Filing a submission after final rejection (37 CFR 1.129(a)) | |
| | | 1810 740 2810 370 For each additional invention to be examined (37 CFR 1.129(b)) | |
| | | 1801 740 2801 370 Request for Continued Examination (RCE) | |
| | | 1802 900 2802 900 Request for expedited examination of a design application | |
| | | Other fee (specify): | |
| | | *Reduced by Basic Filing Fee Paid | |
| | | SUBTOTAL (3) (\$) | |
| | | 40.00 | |

| | | | |
|---------------------|------------|-----------------------------------|----------------|
| SUBMITTED BY | | (Complete if applicable) | |
| Name (Print/Type) | Frank Tain | Registration No. (Attorney/Agent) | 46,462 |
| Signature | | Telephone | (607) 256-2000 |
| | | Date | 01/02/2003 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Washington, D.C. 20231

ASSIGNMENT AND AGREEMENT

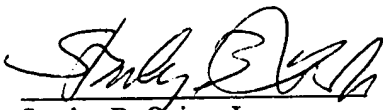
For value received, I, Stanley B. Quinn, Jr., of Elmhurst in the State of Illinois, hereby sell, assign and transfer to BorgWarner, Inc., a Corporation of Delaware, having a place of business at BorgWarner Powertrain Technical Center, 3800 Automation Avenue, Suite 100, Auburn Hills, MI 48326-1782, and its successors, assigns and legal representatives (hereinafter referred to as the "Assignee"), the entire right, title and interest, for the United States of America, in and to certain inventions related to the "CONTROL METHOD FOR ACHIEVING EXPECTED VCT ACTUATION RATE USING SET POINT RATE LIMITER" described in an application for Letters Patent of the United States, executed by me of even date here with, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Assignee the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Assignee in the United States and in all countries foreign to the United States, or to such nominees as Assignee may designate.

I agree that, when requested, I shall, without charge to Assignee, but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Stanley B. Quinn, Jr.

5/DEC/2002
Date:



BROWN & MICHAELS, P.C.
118 N. TIOGA ST. SUITE 400
ITHACA, NY 14850-4343
(607) 256-2000



M & T BANK
10-4/220 458

09539

1/3/2003

PAY TO THE ORDER OF Assistant Commissioner for Patents

\$**40.00

Forty and 00/100***** DOLLARS

Assistant Commissioner for Patents

MEMO BW-0075 / Assignment - BW-DKT02065A


AUTHORIZED SIGNATURE

⑈009539⑈ ⑆022000046⑆ 01528⑈838 4⑈

BROWN & MICHAELS, P.C.

Assistant Commissioner for Patents

09539

1/3/2003

40.00

Recoverable Expenses: Client Related Advances BW-0075 / Assignment BW-DKT02065A

M&T General Checking 1 BW-0075 / Assignment - BW-DKT02065A

40.00

Docket No. BW-DKT02065A Serial/Patent No. 10/303,526
Title: Control Method For Achieving Expected ... LIMITER
Inventor/s: Stanley B. Quirn, Jr.
The following, due _____ in the USPTO was received in the Patent Office Mail Room on the date stamped hereon:
☒ Transmittal ☐ Petition or Request for _____
☒ Fee Transmittal ☐ Notice of Appeal
☐ Specification ☐ Appeal Brief
☐ Drawings ☐ Request for Time Extension
☐ Declaration/POA ☐ IDS ☐ References
☒ Assignment/Cover ☐ Issue Fee & Transmittal
☐ Sequence List & Disk ☐ Response to Office Action
☐ Stmt. Under 37 CFR § 1.821 ☐ Missing Parts Form & Fee
☐ Correct Filing Receipt ☐ Rule 131/132 Declaration
☐ Provisional Patent Appl. & Cover ☐ Maintenance Fee & Transmittal
☒ Check # 9539 \$ 40.00 ☐ Other: _____
Mailed 1-6-03 By: JB

7001 2510 0004 7358 1390